

BBCCT-115

ASSIGNMENT BOOKLET

Bachelor (Honours) Degree in BIOCHEMISTRY (BSCBCH)

HUMAN PHYSIOLOGY

Valid from 1st January, 2023 to 31st December, 2023

Last date for the assignment submission is on or before 31th December, 2023.



**School of Sciences
Indira Gandhi National Open University
Maidan Garhi, New Delhi-110068**

Dear Student,

Please read the section on assignments in the Programme Guide of B.Sc. (Hons.) Biochemistry (BSCBCH) that we sent you after your enrolment. A weightage of 30 percent, as you are aware, has been earmarked for continuous evaluation, **which would consist of one tutor-marked assignment** for this course. The assignment in this booklet consists of two parts- I and II. It covers all blocks of the course (BBCCT-115). The total marks of this assignment are 100, of which 35% are needed to pass it.

SPECIFIC INSTRUCTIONS FOR TUTOR MARKED ASSIGNMENTS (TMA)

- 1) Write your Enrolment Number, Name, Full Address, Signature and Date on the top right hand corner of the first page of your response sheet.
- 2) Write the Programme Title, Course Code, Course Title, Assignment Code and Name of your Study Centre on the left hand corner of the first page of your response sheet.

Course Code and Assignment Code may be reproduced from the assignment.

The top of the first page of your response sheet should look like this:

ENROLMENT NO.:	
PROGRAMME TITLE :	NAME:
COURSE CODE :	ADDRESS:
COURSE TITLE :
ASSIGNMENT CODE :	SIGNATURE:
STUDY CENTRE :	DATE:

**PLEASE FOLLOW THE ABOVE FORMAT STRICTLY TO FACILITATE EVALUATION
AND TO AVOID DELAY.**

- 3) Use only foolscap size writing paper (but not of very thin variety) for writing your answers.
- 4) Leave 4 cm margin on the left, top and bottom of your answer sheet.
- 5) Your answers should be precise.
- 6) Solve questions of the assignment, and submit the complete assignment answer sheets within the due date.
- 7) The assignment answer sheets are to be submitted to your Study Centre within the due date. Answer sheets received after the due date shall not be accepted.
- 8) We strongly suggest that you retain a copy of your answer sheets.
- 9) **This assignment is valid from 1st January, 2023 to 31th December, 2023.** If you have failed in this assignment or fail to submit it by December, 2023, then you need to get the assignment for the year 2024, and submit it as per the instructions given in the Programme Guide.
- 10) You cannot fill the exam form for this course till you have submitted this assignment.

We wish you good luck!

Assignment Human Physiology

Course Code: **BBCCT-115**
Assignment code: **BBCCT-115/TMA/2023**
Maximum marks: **100**

Note: Attempt all questions. The marks for each question are indicated against it.

PART- I

Maximum marks: 50

1. (a) Define the following terms: (1x5=5)
 - (i) Micturition
 - (ii) Asthma
 - (iii) Bohr effect
 - (iv) Hypertension
 - (v) Reabsorption

(b) Discuss the organization level of the human body. (5)
2. Explain the role of the following: (2.5x4=10)
 - (a) Vitamin K
 - (b) Glomerulus
 - (c) Microcirculation
 - (d) Renin-Angiotensin-Aldosterone System
3. (a) Discuss the cardiac cycle with the suitable diagram. (5)

(b) Explain how CO₂ transport into the blood. (5)
4. Differentiate between the following: (2.5x4=10)
 - (a) Acidosis and Alkalosis
 - (b) Pulmonary circuit and Systemic circuit.
 - (c) External Respiration and Internal respiration
 - (d) Interstitial fluid and transcellular fluid
5. Write short notes on the following: (5+5)
 - (a) Pulmonary Edema
 - (b) Renal Function test

PART-II

Maximum marks: 50

6. (a) Discuss the structure and function of stomach with labelled diagram. (5)
- (b) Enlist the causes and symptoms of the following diseases: (2.5x2=5)
- (i) Fatty liver
- (ii) Dementia
7. (a) What are the liver function tests? (5)
- (b) Discuss the menstrual cycle with the help of suitable diagramme. (5)
8. Differentiate between: (5+5=10)
- (a) Large intestine and small intestine
- (b) Testis and Ovary
9. (a) Classify the bone cells with their roles. (5)
- (b) Discuss the molecular organisation of skeletal muscle fiber. (5)
10. Write short notes on the following: (5+5=10)
- (a) Synaptic Transmission
- (b) Sensory Receptors